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File: JPAB

Feb 8, 1991

PUB-NO: JP403030499A

DOCUMENT-IDENTIFIER: JP 03030499 A

TITLE: ELECTRONIC COMPONENT MOUNTING DEVICE

PUBN-DATE: February 8, 1991

INVENTOR-INFORMATION:

NAME

AKATSUCHI, KAZUYUKI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

MATSUSHITA ELECTRIC IND CO LTD N/A

APPL-NO: JP01165888

APPL-DATE: June 28, 1989

INT-CL (IPC): H05K 13/04; B23P 19/00; B23P 19/04; B23P 21/00

ABSTRACT :

PURPOSE: To enable a chip to be transferred from a chip feed section to a board and mounted on it at a high speed by a method wherein a light source is made to protrude under a chip held by a nozzle while a transfer head is in motion and irradiate the chip from the lower side, and the chip is observed through a vacuum unit by a camera provided above the vacuum unit.

CONSTITUTION: A transfer head 10 is moved above a chip feed section 7, a nozzle 17 is made to descend to hold a chip P by suction from the chip feed section, to take up the chip P, and to ascend. The nozzle 17 starts to move toward a board 8 as ascending, a cylinder 41 is operated to make a light source 40 advance under the chip P and turned ON, and the chip P held by the nozzle 17 is observed by a camera 18. A computer computes the positional deviations of the chip P in the directions of X, Y, and θ ; from the observation result by the camera 18, the nozzle 17 is made to descend, and the chip P is mounted on the board 8.

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